

# DH-XVR5108H-4KL-I2

8 Channel Penta-brid 4K-N/5MP Mini 1U WizSense Digital Video Recorder



- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
- Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel ) human face detection
- IoT & POS functionalities



Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### System Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-4KL-12 featuring full-channel SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

#### Functions

#### **Real Time Face Recognition**

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

\*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

#### **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

#### **SMD** Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

#### AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

#### Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

#### HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

#### **High Definition Camera Input**

The XVR supports up to 4K HDCVI camera and 8MP IP camera input.

#### Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

#### Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

#### AI Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical informaton and analyze. Person & Vehicle optonal for playback to achieve quick target search, saving event retrieval tme.



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#### **Technical Specification** System Main Processor Embedded Processor Embedded LINUX **Operating System** Perimeter Protection Performance 2 channels, 10 IVS for each channel Human/Vehicle secondary recognition for tripwire and Object classification intrusion Search by target classification (Human, Vehicle) AI Search **Face Detection** Max 12 face pictures/sec processing Performance 2 channels video stream face recognition, only support analog camera Detect strangers' faces (not in device's face database). Stranger Mode Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity AI Search threshold can be set for each target face image. Up to 20 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, Database Management cerificate No., countries&regions and state can be added to each face picture. Each database can be applied to video channels Database Application independently. Buzzer, Voice Prompts, Email, Snapshot, Recording, **Trigger Events** Alarm Out, PTZ Activation, etc. SMD Plus Performance 8 channels AI Search Search by target classification (Human, Vehicle) Video and Audio Analog Camera Input 8 channels. BNC 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera Input 720P@25/30fps AHD Camera Input 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps TVI Camera Input 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps **CVBS** Camera Input PAL/NTSC IP Camera Input 8+8 channels, each channel up to 8MP Audio In/Out 1/1, RCA Two-way Talk Reuse audio in/out, RCA Recording AI Coding/H.265+/H.265/H.264+/H.264 Compression 4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, Resolution 960H, D1, CIF Main stream: All channel 4K(1fps-7fps); 6MP(1fps-10fps); 5MP(1fps-12fps); 4K-N, 4MP/3MP(1fps-15fps); Record Rate 4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps); Sub steram:960H(1fps-15fps); D1/CIF(1fps-25/30fps) Bit Rate 32 Kbps-6144 Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video Record Mode detection: Motion Detection, Video Loss, Tampering), Alarm, Stop

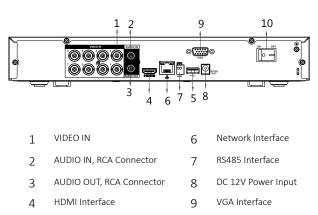
Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post- record: 10 s–300 s	
Audio Compression	AAC (only for the 1st channel), G.711A, G.711U, PCM	
Audio Sample Rate	8 KHz, 16 bit Per Channel	
Audio Bit Rate	64 Kbps Per Channel	
Display		
Interface	1 HDMI ,1 VGA	
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Network		
Interface	1 RJ-45 Port (1000 MB)	
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	
Max. User Access	128 users	
Smart Phone	iPhone, iPad, Android	
Interoperability	ONVIF 16.12, CGI Conformant	
Video Detection and Alarm		
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Alarm input	N/A	
Relay Output	N/A	
Playback and Backup		
Playback	1/4/9	
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
Backup Mode	USB Device/Network	
Storage		
Internal HDD	1 SATA Port, up to 10TB capacity	
eSATA	N/A	
Auxiliary Interface		
USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
RS485	1 Port, for PTZ Control	
RS232	N/A	
Electrical		
Power Supply	DC 12V/2A	
Power Consumption (Without HDD)	<10W	

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#### Construction

Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80'' × 10.11'' × 2.17'')		
Net Weight (without HDD)	1.2 kg (2.6 lb)		
Gross Weight	1.4 kg (3.1 lb)		
Installation	Desktop installation		
Environmental			
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH		
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH		
Third-party Support			
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more		
Certifications			
	FCC: Part 15 Subpart B		
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN		

#### Panels



5 USB Interface

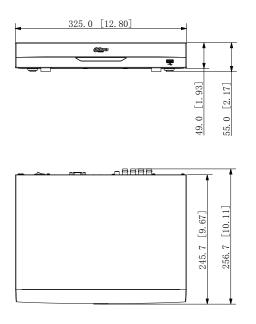
### 10 Power Switch

#### **Ordering Information**

Туре	Part Number	Description
8 Channel	DH-XVR5108H-	Mini 1U WizSense Digital Video
WizSense XVR	4KL-I2	Recorder

50130, EN 55024

#### Dimensions (mm[inch])



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